

Patent Claim:

Windshield-wiper blade and wiper device with variable height and width adjustment,  
characterized in that the device is capable of refurbishing wiper blades with ragged edges.

The invention relates to a trimmer device per the overall concept of Patent Claim 1.

The current situation is that a windshield-wiper blade, although still appearing to be usable, has sometimes become unusable because of the abrasion of the narrow rubber wiper surface and must be replaced.

The objective is achieved by the invention in that a device that is constructed with variable tangential height and variable width can accept the wiper blade in order to trim it by an amount of about 0.5 mm.

It is thus possible to refurbish all conventional wiper blades.

A conventional razor blade serves as the cutting edge.

The advantages achieved by the invention consist of the fact that a wiper blade that has become ragged may be trimmed several times before it finally becomes unusable.

In the following, an embodiment example of the invention will be described in greater detail in the following using the Figures, which show:

Figure 1          overall view

Figure 2          top view with a lateral view from the left

Figure 3          working model with inserted wiper.

An operating example is included on a separate page as an enclosure.

The intermediary frame (1) of a wiper blade is inserted into the guide (2) of the trimmer device.

The width adjustment (3) is so constructed that it automatically adapts to the particular wiper-blade width by means of tangential displacement.

Height adjustment of the trimmer device is performed by means of a threaded spindle (4).

The thread and the abutment play of the height adjustment is disengaged by means of a pressure spring (5) mounted between the securing bow (6) and cutting bow (7).

Thus, one achieves simultaneously a braking of the height-adjustment spindle (4).

The threaded spindle (4) is rotated downward until the upper edge of the wiper blade is reached (fixing point).

One then rotates the threaded spindle (4) to the right by about  $\frac{1}{2}$  of a rotation.

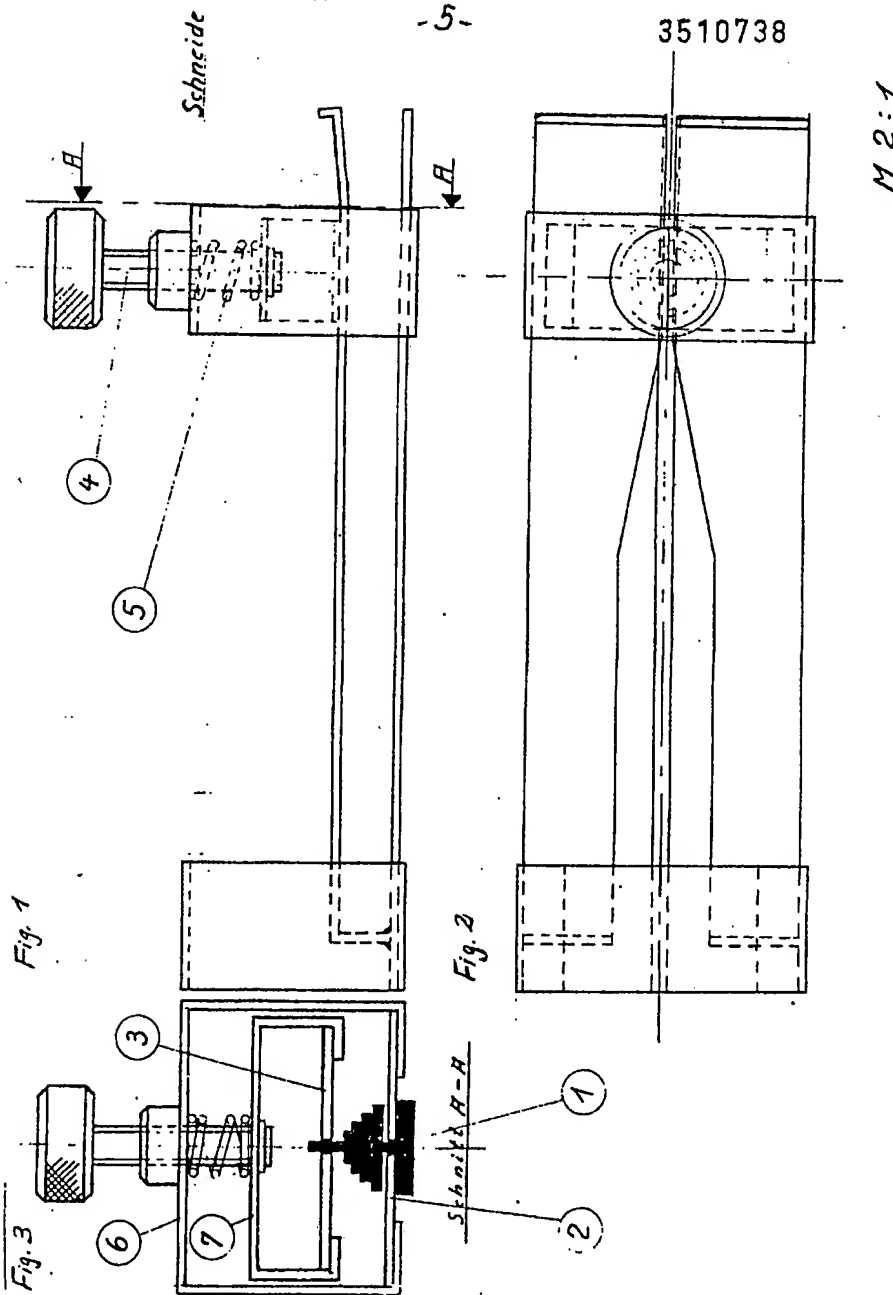
The operating position is now achieved.

The trimmer device is then drawn smoothly across the wiper blade, whereby a rubber strip of about 0.5 mm is cut off.

The wiper blade is now again completely ready for service.

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[Schneide = cut]

[Schnitt A-A = View A-A]

Scale: 2:1